AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims

- 1-49. (Cancelled)
- 50. (Previously presented) An isolated and purified peptide having an amino acid sequence homologous to an amino acid sequence of a domain of a pyrogenic exotoxin which domain forms a central turn in the exotoxin starting within β -strand 7 and connecting the β -strand 7, via short β -strand 8, to α -helix 4, and ending within α -helix 4, based on the domain numbering of SEB, wherein said isolated peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes.
- 51. (Previously presented) The isolated and purified peptide of Claim 50 wherein the amino acid sequence of said peptide is homologous to amino acids 150-161 of *Staphylococcus aureus* enterotoxin B (SEQ. ID NO.: 1).
- 52. (Previously presented) The peptide of Claim 50 or 51, wherein said peptide is dimerized.
- 53. (Previously presented) The peptide of Claim 50 or 51, wherein said peptide is multimerized.
 - 54. (Previously presented) The peptide of Claim 53, wherein said peptide is trimerized.
- 55. (Previously presented) The peptide of Claim 50 or 51, wherein said peptide is conformationally constrained.
- 56. (Currently Amended) The peptide of Claim 55, wherein said peptide is eyelyzed cyclized.

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- 57. (Previously presented) The peptide of Claim 50 or 51 further comprising an N-terminal lauryl-cysteine (LC) and/or a C-terminal cysteine.
- 58. (Previously presented) The peptide of Claim 50 or 51 further comprising an N-terminal and C-terminal cysteine.
- 59. (Previously presented) The peptide of Claim 58 wherein the peptide comprises an intramolecular disulfide bridge.
- 60. (Previously presented) The peptide of Claim 50 or 51, further comprising an N-terminal and a C-terminal D-amino acid residue.
- 61. (Previously presented) The peptide of Claim 60, wherein the D-amino acid is D-alanine.
- 62. (Previously presented) The peptide of Claim 50 or 51, comprising an N-terminal acetyl group.
- 63. (Previously presented) The peptide of Claim 62, further comprising a C-terminal D-amino acid residue.
- 64. (Previously presented) The peptide of Claim 63, wherein the D-amino acid is D-alanine.
- 65. (Currently Amended) An isolated peptide having the amino acid sequence of SEQ. ID NO.: 1 wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes.
- 66. (Currently Amended) An isolated peptide having the amino acid sequence of SEQ.

 ID NO.: 2 wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes.

- 67. (Currently Amended) An isolated peptide having the amino acid sequence of SEQ.

 ID NO.: 3 wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes.
- 68. (Currently Amended) An isolated peptide having the amino acid sequence of SEQ. ID NO.: 4, wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes.
- 69. (Currently Amended) An isolated peptide having the amino acid sequence of SEQ.

 ID NO.: 5 wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes.
- 70. (Currently Amended) An isolated peptide having the amino acid sequence of SEQ.

 ID NO.: 6 wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes.
- 71. (Currently Amended) An isolated peptide having the amino acid sequence of SEQ.

 ID NO.: 7 wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes.
- 72. (Currently Amended) An isolated peptide having the amino acid sequence of SEQ. ID NO.: 8 wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes.
- 73. (Currently Amended) An isolated peptide having the amino acid sequence of SEQ.

 ID NO.: 9 wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes.

- 74. (Currently Amended) An isolated peptide having the amino acid sequence of SEQ.

 ID NO.: 10 wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes.
- 75. (Currently Amended) An isolated peptide having the amino acid sequence of SEQ.

 ID NO.: 11 wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes.
- 76. (Currently Amended) A composition which inhibits pyrogenic exotoxin-mediated activation of T-lymphocytes comprising an isolated and purified peptide having an amino acid sequence homologous to an amino acid sequence of a domain of a pyrogenic exotoxin which domain forms a central turn in the exotoxin starting within β-strand 7 and connecting the β-strand 7, via short β-strand 8, to α-helix 4, and ending within α-helix 4, based on the domain numbering of SEB, wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes, in an amount effective to inhibit exotoxin-induced expression of an RNA encoded by the IL-2, INF-(IFN-γ and/or TNF-β genes, and a carrier.
- 77. (Previously presented) The composition of Claim 76, wherein the peptide has a sequence selected from the group consisting of SEQ. ID NO.: 1, SEQ. ID NO.: 2, SEQ. ID NO.: 3, SEQ. ID NO.: 4, SEQ. ID NO.: 5, SEQ. ID NO.: 6, SEQ. ID NO.: 7, SEQ. ID NO.: 8, SEQ. ID NO.: 9, SEQ. ID NO.: 10, and SEQ. ID NO.: 11.
- 78. (Previously presented) The composition of Claim 76, wherein the peptide has a sequence selected from the group consisting of SEQ. ID NO.: 2, SEQ. ID NO.: 6, SEQ. ID NO.: 7, SEQ. ID NO.: 8, SEQ. ID NO.: 9, SEQ. ID NO.: 10 and SEQ. ID NO.: 11.

- 79. (Previously presented) The composition of Claim 76, wherein the peptide has the sequence of SEQ. ID NO.: 2.
- 80. (Currently Amended) An immunogenic composition for eliciting antibodies that block pyrogenic exotoxin mediated activation of T-lymphocytes comprising an isolated and purified peptide having an amino acid sequence homologous to an amino acid sequence of a domain of a pyrogenic exotoxin which domain forms a central turn in the exotoxin starting within β-strand 7 and connecting the β-strand 7, via short β-strand 8, to α-helix 4, and ending within α-helix 4, based on the domain numbering of SEB, wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes, in an amount effective to elicit said antibodies, and a carrier.
- 81. (Previously presented) The immunogenic composition of Claim 80, further comprising an adjuvant selected from the group consisting of proteosomes, KLH, alum and mixtures thereof.
- 82. (Previously presented) The immunogenic composition of Claim 80, wherein the peptide has a sequence selected from the group consisting of SEQ. ID NO.: 1, SEQ. ID NO.: 2, SEQ. ID NO.: 3, SEQ. ID NO.: 4, SEQ. ID NO.: 5, SEQ. ID NO.: 6, SEQ. ID NO.: 7, SEQ. ID NO.: 8, SEQ. ID NO.: 9, SEQ. ID NO.: 10 and SEQ. ID NO.: 11.
- 83. (Previously presented) The immunogenic composition of Claim 80, wherein the peptide has a sequence selected from the group consisting of SEQ. ID NO.: 2, SEQ. ID NO.: 6, SEQ. ID NO.: 7, SEQ. ID NO.: 8, SEQ. ID NO.: 9, SEQ. ID NO.: 10 and SEQ. ID NO.: 11.
- 84. (Previously presented) The immunogenic composition of Claim 80, wherein the peptide has the sequence of SEQ. ID NO.: 2.

- 85. (Currently Amended) An immunogenic composition for eliciting protective immunity against toxic shock comprising an isolated and purified peptide having an amino acid sequence homologous to an amino acid sequence of a domain of a pyrogenic exotoxin which domain forms a central turn in the exotoxin starting within β -strand 7 and connecting the β -strand 7, via short β -strand 8, to α -helix 4, and ending within α -helix 4, based on the domain numbering of SEB, wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes, in an amount effective to elicit said protective immunity, and a carrier.
- 86. (Previously presented) The composition of claim 76 wherein said peptide has an amino acid sequence homologous to the amino acid sequence of amino acids 150-161 of *Staphylococcus aureus* enterotoxin B (SEQ ID NO:1).
- 87. (Previously presented) The immunogenic composition of claim 80 wherein said peptide has an amino acid sequence homologous to the amino acid sequence of amino acids 150-161 of *Staphylococcus aureus* enterotoxin B (SEQ ID NO:1).
- 88. (Currently Amended) An isolated and purified peptide having an amino acid sequence KXaa₍₃₎TXaaQEXaaD (SEQ ID NO:13) wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes, wherein Xaa is an amino acid.
- 89. (Currently Amended) An isolated and purified peptide having an amino acid sequence KKXaa₍₆₎LD (SEQ ID NO:14) wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes, wherein Xaa is an amino acid.

- 90. (Currently Amended) An isolated an purified peptide having an amino acid sequence charged amino acid-Xaa₍₂₎-hydrophobic amino acid-[[X]] Xaa -hydrophobic amino acid-polar amino acid-polar amino acid-hydrophobic amino acid-D (SEQ ID NO:15), wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes, and wherein Xaa is an amino acid.
- 91. (Currently Amended) An isolated and purified peptide having an amino acid sequence Xaa₍₂₎KXaa₍₃₎TXaaQEXaaD (SEQ ID NO:16) wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes, wherein Xaa is an amino acid.
- 92. (Currently Amended) An isolated and purified peptide having an amino acid sequence Xaa₍₂₎KKXaa₍₆₎LD (SEQ ID NO:17) wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes, wherein Xaa is an amino acid.
- 93. (Currently Amended) An isolated an purified peptide having an amino acid sequence Xaa₍₂₎-charged amino acid-Xaa₍₂₎-hydrophobic amino acid- [[X]] Xaa -hydrophobic amino acid-polar amino acid-hydrophobic amino acid-D (SEQ ID NO:18), wherein said peptide does not have toxin agonist activity and is capable of antagonizing toxin-mediated activation of T lymphocytes, and wherein Xaa is an amino acid.
- 94. (New) The peptide of claim 88, wherein the peptide is capable of eliciting antibodies that block pyrogenic exotoxin-mediated activation of T-lymphocytes.
- 95. (New) The peptide of claim 89, wherein the peptide is capable of eliciting antibodies that block pyrogenic exotoxin-mediated activation of T-lymphocytes.

- 96. (New) The peptide of claim 90, wherein the peptide is capable of eliciting antibodies that block pyrogenic exotoxin-mediated activation of T-lymphocytes.
- 97. (New) The peptide of claim 91, wherein the peptide is capable of eliciting antibodies that block pyrogenic exotoxin-mediated activation of T-lymphocytes.
- 98. (New) The peptide of claim 92, wherein the peptide is capable of eliciting antibodies that block pyrogenic exotoxin-mediated activation of T-lymphocytes.
- 99. (New) The peptide of claim 93, wherein the peptide is capable of eliciting antibodies that block pyrogenic exotoxin-mediated activation of T-lymphocytes.